

Percentage

1. If 75% of a number is added to 75, the result is the number itself. Then the number is

Ans.300

Difficulty level : Easy _____ Moderate easy _____ difficult _____

Basic formula:

$$X\% = x / 100$$

$$a/b \text{ as percent : } (a/b \times 100) \%$$

Answer with explanation

Take the number as x

$$75\% \text{ of } x + 75 = x$$

$$75/100 + 75 = x$$

$$75 = x - 75/100 x$$

$$75 = x - \frac{3}{4} x$$

$$75 = x/4$$

$$\rightarrow x = 300$$

- 2.Subtracting 40% of a number from the number, we get the result as 30, the number is

Ans: 50

Difficulty Level : Easy _____ Moderately Easy _____ Difficult _____

Answer with explanation:

Consider the number as x

$$x - 40/100 x = 30$$

$$x - 2/5 x = 30$$

$$3/5 x = 30$$

$$3x = 150$$

$$x = 150/3$$

$$x = 50$$

2. If three fifth of a number is 40 more than 40% of the same number
3. If three fifth of a number is 40 more than 40% of the same number. What is the number Ans: 200

Difficulty level __ easy __ moderately easy __ difficult __

Answer with explanation

Consider the number as x

$$\begin{aligned} \frac{3}{5}x &= 40 + 40\% \text{ of } x \\ &= 40 + 40/100x \end{aligned}$$

$$\frac{3}{5}x - 40/100x = 40$$

$$\frac{3}{5}x - \frac{2}{5}x = 40$$

$$\frac{1}{5}x = 40$$

$$\rightarrow x = 200$$

4. A number on subtracting 15 from it, reduces to its 80% what is 40% of that number?

Difficulty level __ easy __ moderately easy __ difficult __

Answer with explanation :

Let the number be x

$$x - 15 = 80\%x$$

$$x - 15 = 80/100x$$

$$x - 15 = \frac{4}{5}x$$

$$x - \frac{4}{5}x = 15$$

$$x / 5 = 15$$

$$\rightarrow 75$$

Now,

$$\begin{aligned} &40\% \text{ of } 75 \\ &= 40/100 \times 75 \end{aligned}$$

$$= \frac{2}{5} \times 75$$

$$= 30$$

Hint:

$$30\% (75) = 80/100 \times 75 = 60 \text{ ---(1)}$$

$$= 75 - 15 = 60 \text{ ---(2)}$$

$$(1)=(2)$$

5, Calculation shows that an angle is $37\frac{1}{2}\%$. The size obtained by drawing and measurement is 36%. The error percent is

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Let the number be x

$$X - 15 = 80\% \ x$$

$$X - 15 = 80\% \ x$$

$$X - 15 = \frac{4}{5} \ x$$

$$X - \frac{4}{5} = 15$$

$$X / 5 = 15$$

$$X = 75$$

Now,
40% of 75

$$= 40 / 100 \times 75$$

$$= 2 / 5 \times 15$$

$$= 30$$

Hint:

$$30\% (75) = 80/100 \times 15 = 60 \quad \text{---} > (1)$$

$$\rightarrow 75 - 15 = 60 \quad \text{--} (2)$$

$$1=2$$

percentage, BU

5. Calculation shows that an angle is $37\frac{1}{2}\%$ The size obtained by drawing and measurement is 36%. The error percent is

Ans: 4

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Basic Formula

Answer with explanation:

Error for $37\frac{1}{2}\%$

$$\rightarrow 37\frac{1}{2} - 36 = 75 / 2 = 36$$

$$\text{error for 100} = 75 - 72 / 2 = 3/2 (=1 \frac{1}{2})$$

$$= 3/2 \times 2/75 \times 100$$

$$= 4\%$$

7. If x is 90% of Y, what percent of x is y?

ans : 111.1

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

$$X = 90 \% \text{ of } y$$

$$X = 90/ 100 y$$

$$X = 9/10 y$$

$$\rightarrow y = 10/9 x$$

$$\rightarrow y / x = 10/9$$

$$\text{required percentage} = y / x \times 100$$

$$= 10/9 \times 100$$

$$= 1.111 \times 100$$

$$= 111.1 \%$$

8. If x % of y is the 4/5 of 80, then the value of xy is

ans : 6400

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

$$X \% \text{ of } y = 4/5 \times 80$$

$$X / 100 \times y = 4/5 \times 80$$

$$xy = 4 \times 16 \times 100$$

$$xy = 6400$$

9. Subtracting 6% of % from x is equivalent to multiplying % by how much?

Ans : 94

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

Consider the number as x

$$X - 6/100 = xy$$

$$100 / 100 x - 6 / 100 x = xy$$

$$100-6 / 100 x = xy$$

$$94 / 100 x = xy$$

$$94\% \text{ of } x = xy$$

$$= y = 94\%$$

10. If 8% of x = 4% of y, then 20% of x is

ans: 10

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

$$8\% \text{ of } x = 4\% \text{ of } y$$

$$8x / 100 = 4 / 100 y \rightarrow 8x = 4y$$

$$\Rightarrow 2x = y$$

$$\Rightarrow x = \frac{1}{2} y$$

$$20\% \text{ of } x = 20/100 x$$

$$= 20/100 x \frac{1}{2} y$$

$$= 10/100 y$$

$$= 10\% \text{ of } y$$

11. $(X\% \text{ of } Y + Y\% \text{ of } X) = ?$

Ans: 2% of xy

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

$$X\% \text{ of } y + y\% \text{ of } X$$

$$= xy / 100 + yx / 100$$

$$= 2 \times y / 100$$

$$= 2\% \text{ xy}$$

12. If 90% of A=30% of B and b=x% of A, then x is equal to
ans: 300

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer with explanation:

$$90\% \text{ of } A = 30\% \text{ of } B$$

$$90 / 100 A = 30 / 100 B$$

$$90A = 30B$$

$$9A = 3B$$

$$3A = B$$

$$B = x/100 A$$

$$3A = x / 100 A$$

$$\rightarrow x = 300$$

13. x% of Y is y% of ?

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer:

$X\% Y$

$$\rightarrow x / 100 \times y$$

$$\rightarrow y / 100 X$$

$$\rightarrow y\% \text{ of } X$$

Ans: X

14. A number increased $37\frac{1}{2}\%$ gives 33. The number is

Ans: 24

$$(100 + 37\frac{1}{2})\% \text{ of } x = 33$$

$$(100 + 75/2)\% \text{ of } x = 33$$

$$(200 + 75/2)\% \text{ of } x = 33$$

$$= 275 / 2 \times 1 / 100 x = 33$$

$$x = (33 \times 100 \times 2) / 275$$

$$= 3 \times 4 \times 2$$

$$x = 24$$

15. The number which when decreased by $27\frac{1}{2}\%$ given 87 is

Ans: 120

Answer

$$(100 - 27\frac{1}{2})\% \text{ of } x = 87$$

$$200 - 55 / 2 \times 1/100x = 87$$

$$145 / 2 \times 100 = 87$$

$$x = 87 \times 2 \times 20 / 145$$

$$= 3 \times 2 \times 20$$

$$= 120$$

16. 40 Quintal is what percent of 2 metric tones?

Ans: 200%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

1 metric tonee= 10 quintals

2 metric tonee = 20 quintals

$$= (40 / 20 \times 100) \%$$

$$= (2 \times 100) \%$$

$$= 200\%$$

17. It is known that 20% of the mangoes are rotten. If the number of rotten mangoes is 35, then the total number of mangoes is

Ans: 175

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

$$20\% \times = 35$$

$$20 / 100 = 35$$

$$1/5 = 35$$

$$x = 175$$

18. If 70% of students in a school are boys and the number of girls is 504, the number of boys is

ans: 1176

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer:

70% of students in a school are boys:

$$(100-70)\% = 30\% \rightarrow \text{girls percentage}$$

$$\begin{aligned}
 30\% \text{ of } x &= 504 \\
 30/100x &= 504 \\
 3/10 x &= 504 \\
 x &= 504 \times 10 / 3 \\
 &= 1680 \\
 \text{No of boys} &= 70\% \text{ of } 1680 \\
 &= 70/100 \times 1680 \\
 &= 1176
 \end{aligned}$$

19. A student has to secure 40% marks to pass. He gets 178 marks and failed by 22 marks. The maximum marks are :

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

$$\begin{aligned}
 40\% x &= 178 + 22 \\
 40/100 x &= 200 \\
 2/5 x &= 200 \\
 x &= 100 \times 5/2 \\
 x &= 500
 \end{aligned}$$

20. A house owner was having his house painted. He was advised that he would require 25kg of paint. Allowing for 15% wastage and assuming that the paint is available in 2kg cans, what would be the cost of paint purchased, if one can cost Rs.16?
Ans: 240Rs.

Answer:

Required no of kgs \rightarrow 25kg

10% \rightarrow 2.5

5% / 15% \rightarrow 1.25 / 28.75kg

1 can contains 2kg paint

$$= 28.75$$

$$14 \text{ can} - 1 \text{ can}$$

$$= 15 \text{ cans}$$

$$= 15 \times 16 = 240$$

$$1 \text{ can} = 16 \text{ Rs.}$$

21. A reduction of 12.5% in the price of a dining table brought down its price to Rs.4375, the original price (in Rs.)of the table was:

Ans: Rs.5000

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

The original price to be x

$$X - 12.5\% \text{ of } x = 4375$$

$$X - 12.5 / 100 x = 4375$$

$$X - 125 / 1000 x = 4375$$

$$1000 - 125 / 1000 x = 4375$$

$$875 / 1000 x = 4375$$

$$x = 4375 \times 1000 / 875$$

$$= \text{Rs.}5000$$

22. Of the total amount received by Kiran, 20% was spent on purchases and 5% of the remaining on transportation. If he is left with Rs.1520, the initial amount was

Ans: 2000

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer:

$$\text{For purchase } 20\% \text{ of } x \Rightarrow 20/100 x = 1/5 x$$

$$\text{Remaining } x - 1/5 x = 4/5 x$$

For transportation == $5\% \frac{4}{5} x$

$$= \frac{5}{100} \times \frac{4}{5} x$$

$$= \frac{x}{25}$$

$$\text{Balance} = 4x / 5 - x / 25 = 20x / 25 - x / 25 = 19/25 x$$

$$19x / 25 = 1520$$

$$x = 1520 \times 25 / 19$$

$$x = 2000$$

23. In a library 20% books are in Hindi, 50% of the remaining are in English and the remaining 9000 are in various other languages. What is the total number of books in English.

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

Let the no of books be x

$$20\% \text{ of } x = \frac{20}{100} x \rightarrow \frac{x}{5}$$

$$\text{Remaining} \rightarrow x - \frac{x}{5} = \frac{4x}{5}$$

$$\text{For English} \rightarrow \frac{50}{100} \times \frac{4x}{5}$$

$$\rightarrow \frac{2x}{5}$$

$$\text{Remaining } \frac{4x}{5} - \frac{2x}{5} = \frac{2x}{5}$$

For other languages

$$\frac{2x}{5} = 9000$$

$$2x = 45000$$

$$x = 22500$$

Another method

Let it be 100 %

Hindi 20% $(-20)/80$

Eng 50% of remaining (-40) / 40 = 9000

$$= 100$$

$$9000 \times 100 / 40 = 22500$$

24. Avinash spends 30% of his income on scooter petrol, $\frac{1}{4}$ of the remaining on house rent and the balance on food. If he spends Rs.300 on petrol, then what is the expenditure on house rent?

Ans : 175

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer :

From the given information,

Method: 1

For scooter petrol

$$30x / 100 = 3x / 10$$

$$\text{remaining} \rightarrow x - 3x / 10 = 7x / 10$$

$$\text{for house} \rightarrow \frac{1}{4} \times 7x / 10 = 7x / 40$$

$$\text{remaining for food} \rightarrow 7x / 10 - 7x / 40$$

$$\Rightarrow 28x / 40 - 7x / 40 = 21x / 40$$

$$\begin{aligned} \text{Amount for petrol} &= 30/100 \times x = 300 \\ &= 1000 \end{aligned}$$

House rent,

$$7x / 40 = 7 \times 1000 / 40 = 175$$

Method :2

Total income x

$$\begin{aligned} X - 30/100 x &= x - 300 \\ (\text{in \%}) &= (\text{in Rs.}) \end{aligned}$$

$$30 / 100 x = 300$$

$$x = 1000$$

rem

$$\frac{1}{4} \times 100 = 175\text{Rs.}$$

25. A man spends 35% of his income on house rent 75% of the reaming on other items. What percentage of income does he save

Ans : 16.25

Answers:

Consider the total income as Rs.100

Total In	Rs.100
House rent 35%	Rs. 35

Remaining	Rs. 65
Other expenses 75% of Rs.65 = Rs.48.75	

	Rs. 16.25

He save Rs.16.25

75% of 65

$$\rightarrow 75 / 100 \times 65$$

$$\rightarrow \frac{3}{4} \times 65$$

$$\rightarrow 195/4$$

$$= 48.75$$

26. 88% of 370 + 24% of 210 - ? = 188.

() 256 () 258 () 268 () 358

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

$$88/100 \times 370 + 24/100 \times 210 - x = 118$$

$$88/100 \times 370 + 24/100 \times 210 - 118 = x$$

$$88/100 \times 370 + 24/100 \times 210 - 118/100 \times 100 = x$$

$$32560 + 5040 - 118 / 100 = x$$

$$= 25800/100 = x$$

$$= x = 258$$

27. What percent of Rs.2650 is Rs.1987.50

() 60% () 75% () 80% () 90%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

$$X\% \text{ of } 2650 = 1987.50$$

$$X/100 \times 2650 = 1987.50$$

$$X = 1987.50 \times 100 / 2650$$

$$X = 75$$

$$X = 75\%$$

28. To a sugar solution of 3 litres containing 40% sugar, one liter of water is added. The percentage of sugar in the new solution is :

Answer: 30%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

$$\text{Sugar} = (40/100 \times 3) \text{ liters}$$

$$= 1.2 \text{ liters}$$

From 3 liters, 1.2 liters of sugar is present

29. The price of an article is cut by 20%. To restore it to the former value, the new price must be increased by :

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

Let the price of an article = Rs.100

It is reduced by 20% = 20/80

(20% of Rs.100)

Reduced price Rs.80

Increased price $x\%$ = 20/80

$x/100$ = 20/80

x = $\frac{1}{4} \times 100$

x = 25%

30. Income of a broker remains unchanged through the rate of commission is increased from 4% to 5%. The percentage slump in business is

Answer: 20%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

4% for 100 -> 100

4% of 100 -> 25/75 --1

5% for 100 -> 100

5% of 100 -> 20/80 ----2

Difference 80-75 = 5

Rs.5 for 100

== 100/5 %

== 20%

31. Two numbers are less than a third number by 30% and 37% respectively. How much percent is the second number less than the first ?

answer: 10%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer;

First number $\rightarrow 100$

$$30\% (100) \rightarrow 30 / 70$$

$$\text{Difference} \Rightarrow 70 - 63 = 7$$

$$\text{Diff \%} == 7 / 70 \times 100$$

$$= 10\%$$

32. A bag contains 600 coins of 25p denomination and 1200 coins of 50p denomination, If 12% of 25p coins and 24% of 50p coins are removed, the percentage of money removed from the bag is nearly
answer:

Coin	paise	Rs.
600x 25	15000	Rs.150
1200 x 50	6000	Rs.600

		Rs.750

12% of 25p
i.e, 12% of 600

72 coins

money $72 \times 25 = \text{Rs.}18$

24% of 50p
24% of 1200p

288 coins

288×50

$= \text{Rs.}144$

Rs.162

$$\% \text{ of money removed is } \text{Rs.}162 / \text{Rs.}750 \times 100 = 21.6\%$$

$$= \text{Ans: } 21.6\%$$

33. In an examination, A got 10% marks less than B, B got 25% marks more than C and C got 20% less than D. If A got 360 marks out of 500, the percentage of marks obtained by D was:

Answer: 80%

Answer:

A got 360 out of 500

For B,

$$X - 10x / 100 = 360$$

$$9x/10 = 360$$

$$=x = 360 \times 10/9$$

$$x = 400$$

For C, $x + 25/100x = 400$

$$X + \frac{1}{4}x = 400$$

$$5x / 4 = 400$$

$$= x = 400 \times 4 / 5$$

$$= 320$$

For D,

$$x - 20/100 x = 320$$

$$4x / 5 = 320$$

$$x = 320 \times 5 / 4$$

D got 400 marks

% of D is $400/500 \times 100$

80%

34. If the numerator of a fraction is increased by 15% and its denominator be decreased by 8% the value of the fraction becomes $15/16$. The original fraction is
answer: $\frac{3}{4}$

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answer:

Increased by 15% -- $> 100+15 = 115$

Decreased by 8% $\rightarrow 100-8 = 92$

$$115/100x / 92/100y = 15/16$$

$$115/100x \times 100/92 \times 1/y = 15/16$$

$$x/y \times 115/92 = 15/16$$

$$x/y = 15/16 \times 92 / 115$$

$$x/y = \frac{3}{4}$$

35. In an examination, 35% of total student failed in Hindi, 45% failed in English and 20% in both. The percentage of those who passed in both subjects is?

ans: 40

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

No. of students passed in Hindi	=	100- 35
	=	65%
“ English	=	100-45 %
	=	55%
both	=	(100-20) %
	=	80%

$$65/100 + 55/100 - 80/100 = 120-80/100$$

Hint:

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$= 40/100$$

➔ 40% passed in both subjects

36. The price of sugar increased by 20%. By what percent must a house wife reduce the consumption of sugar, so that the expenditure on sugar is the same as before?

Answer: 16 2/3

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

Answers:

Increased 20%	➔	100 + 20 – 120
Reduction in consumption	=	$R / 100 + R \times 100$
	=	$20/120 \times 100$
	=	$16 \frac{4}{6}$
	=	$16 \frac{2}{3}$

37. The price of oil is increased by 25%. If the expenditure is not allowed to increase, the ratio between the reduction in consumption and the original consumption is

answer: 1:5

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

38. If the price of sugar rises from Rs6 per kg to Rs.7.50 per kg, a person to have no increase in his expenditure on sugar, will have to reduce his consumption of sugar by

Answer: 20%

Difficulty level: Easy ___ Moderately Easy ___ difficult ___

39. The population of a town increase of 15% annually. If its population was 8000 in 1995, what will it be in 1997?

Answer: 10,580

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

$$P(1 + R/100)^n$$

Answer with Explanation:

$$P = 8000$$

$$R = 15 \text{ in } 2 \text{ years}$$

$$= 8000 \times (1 + 15/100)^2$$

$$= 8000 \times (115/100)^2$$

$$= 8000 \times 23/20 \times 23/20$$

$$= 40 \times 23 \times 23$$

$$= 10580$$

Method : 2

$$P \rightarrow 8000$$

$$15\% \text{ } 8000 \rightarrow 1200$$

$$1996 \rightarrow 9200$$

$$15\% \text{ } 9200 \rightarrow 1380$$

$$1997 \rightarrow 10580$$

40. The population of a town is 18000. It increases by 10% during 1st year and by 20% during the 2nd . The population after 2 years will be:

Answer: 23760

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

$$P(1 + R/100)^n$$

Answer with Explanation:

$$p \rightarrow 18000$$

$$\text{for Ist year} \quad R \rightarrow 10\%$$

$$\text{for IInd year} \quad R \rightarrow 20\%$$

$$18000 \times (1 + 10/100) \times (1 + 20/100)$$

$$= 18000 \times 110/100 \times 120/100$$

$$= 18000 \times 11/10 \times 12/10$$

$$= 23760$$

Method 2:

$$P \rightarrow 18000$$

10% of 18000	1800

	19800
20% of 19800	3960

	23760

41. The value of a sewing machine depreciates every year by 4%. Its value at present is Rs.200. What will be its value after 2 years?

Answer: 184.32

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

$$P(1 - R/100)^n$$

Answer with Explanation:

$$P \rightarrow 200$$

$$R \rightarrow 4\%$$

$$N \rightarrow 2 \text{ yrs}$$

$$= 200 \times (1 - 4/100)^2$$

$$= 200 \times (96/100)^2$$

$$= 200 \times 96/100 \times 96/100$$

$$= 200 \times 24/25 \times 24/25$$

$$= 184.32$$

42. The population of a city increases at the rate of 5% annually. Its present population is 1,85,220. Its population 3 years ago was:

Answer: 1,60,000

Difficulty Level : Easy ☐ **Moderately easy** ☐ **Difficult** ☐

Basic Formula:

$$P / (1 + R/100)^n$$

Answer with Explanation:

$$P \rightarrow 185220$$

$$R \rightarrow 5\%$$

$$\begin{aligned} & 185220 \\ & = \frac{\quad}{(1 + 5/100)^3} \end{aligned}$$

$$\begin{aligned} & 185220 \\ & = \frac{\quad}{(1 + 5/100)^3} \end{aligned}$$

$$= 185220 \times 20/21 \times 20/21 \times 20/21$$

$$= 160000$$

43. A ball pen factory decided to reduce its production by 10% over that of previous month for next 3 months starting from February 2005. January 2005, it produced 3000 ball pens. How many ball pens were produced in March 2005?

Answer : 2,340

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

$$P (1 - R/100)^n$$

Answer with Explanation:

p → 3000

R → 10%

N → 2

$$\begin{aligned} P (1 - R/100)^n &\rightarrow 3000 \times 90/100 \times 90/100 \\ &\rightarrow 3 \times 810 \\ &\rightarrow 2430 \end{aligned}$$

44. Due to an increase of 30% in price of eggs, 3 eggs less are available for Rs. 7.80. The present rate of eggs per dozen is ?

Answer : Rs. 9.36

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

45. The price of a shirt is increased by 15% and then reduced by 15%. The final price of the shirt is ?

Answer : 2.25% decrease

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

46. If the radius of a circle is decreased by 50%, its area is reduced by :

Answer :75%

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

47. A student has to obtain 33% of the total marks to pass. He got 125 marks and failed by 40 marks. The Maximum marks are :
Answer : 500

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

48. From the salary of an officer, 10% is deducted as house rent, 20% of the rest, he spends on conveyance, 20% of the rest he pays as income tax and 10% of the balance, he spends on cloths. Then, he is left with Rs. 15,552. Find his total salary.

Answer: 30,000

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

49. The freight of machine amounts to 20% of its price. Had the price been 10% less than what it is, the total cost of the machine would have been Rs. 480 less. What is the price of the machine?

Answer : 4,000

Difficulty Level : Easy ☐ Moderately easy ☐ Difficult ☐

Basic Formula:

Answer with Explanation:

50. A man gave 30% of his money to his wife, 40% of the remainder to his son and the remaining money equally to his three daughters. If each daughter get Rs. 224, what does the wife get?

Answer : 480

Difficulty Level : Easy ☐ **Moderately easy** ☐ **Difficult** ☐

Basic Formula:

Let the money be x

30% for his wife

$$\rightarrow (30/100) x \rightarrow (3/10) x$$

$$\text{remaining } x - (3/10)x = 7x / 10$$

for his son 40%

$$40/100 (7x/10) = (28/100)x$$

remaining

$$7x / 10 - 28x/100 = 42x / 100$$

for his three daughters

$$42x / 100 \times 1/3 = 224$$

$$\Rightarrow 14 x / 100 = 224$$

$$x = 224 \times 100 / 14$$

$$x = 1600$$

wife get the amount is

$$30/100 \times 1600 = 480$$

Rs.480

Answer with Explanation:

সব ধরনের ই-বুক ডাউনলোডের জন্য

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